

THE UNITED STRAILS OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

AEA International Seeds and Ratgers, The State University of New Iersey

ILCCORS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY EARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC ENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR UG IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE POSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

 $M \times Z \cap X \times M \times Z \longrightarrow X \times Z \longrightarrow Z \cap X \times M \times Z \cap M \times Z \cap$

FESCUE, TALL

'Kalahari'

In Testimon Marrest, I have hereunto set my hand and caused the seal of the Mant Mariety Protection Office to be affixed at the City of Washington, D.C. this twelfth day of September, in the year two thousand and seven.

Allust:

Commissioner Commissioner

Plant Variety Protection Office Agricultural Marketing Service

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

(Instructions and information collection	burden statement on reverse)	,									
1. NAME OF OWNER	1.0.1 -1	2. TEMPORAR	Y DESIGNATION OR EXPERIMENT	AL NAME	IE 3. VARIETY NAME						
DLF International Se	eds and Rutgers. The,	CIS-	TF 35		Kalahari						
4. ADDRESS (Street and No., or R.F.D. No., City, S	ate, and ZIP Code, and County)	5. TELEPHON	E (include area code)		FOR OFFICIAL USE ONLY						
4. ADDRESS (Street and No., or R.F.D. No., City, \$ PO Box 229/175 West H Stre	et (87: 7/19/2014)	541-	369-2251		PVPO NUMBER						
Halsey, OR 97348	GL , ,	6. FAX (include		#	200300144						
USA		1	·								
			929-4087		FILING DATE						
7. IF THE OWNER NAMED IS NOT A "PERSON", G FORM OF ORGANIZATION (corporation, partnership association, etc.)			CORPORATION		2/06/2003						
Coporation	Oregon	197									
10. NAME AND ADDRESS OF OWNER REPRESEN	TATIVE(S) TO SERVE IN THIS APPLICATIO	N. (First person	listed will receive all papers)		FILING AND EXAMINATION FEES: S 2,705.00						
Stephen W. Johnson					R DATE 2/06/2003						
DLF International Seeds					CERTIFICATION FEE:						
PO Box 229/175 West H Street				ĺ	[₹] \$ 768. [∞]						
Halsey, OR 97348					E DATE 7/17/2007						
					D 1/21/0001						
11. TELEPHONE (Include area code) 541-369-2251	12. FAX (Include area code) 541-929-4087		13. E-MAIL STEVEJ@intlseed.com	m							
14. CROP KIND (Common Name)	16. FAMILY NAME (Bolanical)		18. DOES THE VARIETY CONTAIN		NSGENES? (OPTIONAL)						
Tall Fescue	Graminae		YES V NO								
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VARIETY A FIRST GENERATIO	N HYBRID?			ED USDA-APHIS REFERENCE NUMBER FOR THE ATE THE GENETICALLY MODIFIED PLANT FOR						
Festuca arundinacea	YES VO		COMMERICALIZATION.	.0001121	TE GENETIONED! WIGHT TON						
19. CHECK APPROPRIATE BOX FOR EACH ATTAC	CHMENT SUBMITTED		20. DOES THE OWNER SPECIFY	THAT SEEI	OF THIS VARIETY BE SOLD AS A CLASS						
(Follow instructions on reverse)	t the National		OF CERTIFIED SEED? (See Sec		[7]						
a. Exhibit A. Origin and Breeding History of	rtie vanety				22 below)						
b. Exhibit B. Statement of Distinctness			NUMBER OF CLASSES?								
c.			YES NO								
d. ▼ Exhibit D. Additional Description of the V			IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIF 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO								
e. Exhibit E, Statement of the Basis of the	•		NUMBER OF GENERATIONS?		OLLEGO. MICO VARIALITY DE LIMITADO NO TO						
f. Exhibit F. Declaration Regarding Deposi			YES NO								
	l seeds or, for tuber propagated varieties, veri naintained in an approved public repository)	rication	IF YES, SPECIFY THE NUMBE	R 1,2,3, etc	FOR EACH CLASS.						
h. Filing and Examination Fee (\$4,382), ma States" (Mail to the Plant Variety Protection				SISTERED Essary, plea	CERTIFIED se use the space indicated on the reverse.)						
 HAS THE VARIETY (INCLUDING ANY HARVEST FROM THIS VARIETY BEEN SOLD, DISPOSED 	<u> </u>		24. IS THE VARIETY OR ANY COM		OF THE VARIETY PROTECTED BY BREEDER'S RIGHT OR PATENT)?						
OTHER COUNTRIES? VES NO	- ,	. •	YES NO	,	,						
IF YES, YOU MUST PROVIDE THE DATE OF FI	RST SALE, DISPOSITION, TRANSFER, OR	USE	IF YES. PLEASE GIVE COUNTR	RY. DATE C	F FILING OR ISSUANCE AND ASSIGNED						
FOR EACH COUNTRY AND THE CIRCUMSTAN			REFERENCE NUMBER. (Pleas								
 The owners declare that a viable sample of basic for a tuber propagated variety a tissue culture will 	seed of the variety has been furnished with a I be deposited in a public repository and main	pplication and wi ntained for the do	Il be replenished upon request in accuration of the certificate.	ordance wit	n such regulations as may be applicable, or						
The undersigned owner(s) is(are) the owner of thi entitled to protection under the provisions of Section	s sexually reproduced or tuber propagated pla	ant variety, and b	elieve(s) that the variety is new, distir	nct, uniform	and stable as required in Section 42, and is						
Owner(s) is (are) informed that false representation	· ·	in penalties.									
SIGNATURE OF OWNER		SIGNATURE OF OWNER									
Stephen W. Johns	\sim										
NAME (Please part or type)		NAME (F	Please print or type)								
Stephen Johnson											
CAPACITY OR TITLE	DATE	CAPACI	TY OR TITLE	DATE	ïΕ						
Director of Research	2-4-03										

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsq/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use claparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

September 16, 2002 USA

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A

ORIGIN AND BREEDING HISTORY OF KALAHARI TALL FESCUE

Kalahari tall fescue (Fescua arundinacea) was developed by Cobece International Seeds using germplasm obtained from the New Jersey Agricultural Experiment Station. A majority of the parental germplasm of Kalahari tall fescue traces its origin to plants selected from old turfs of the United States in a germplasm collection program initiated in 1962. In this project attractive clones were selected from old turfs in Birmingham, Alabama; Athens, Atlanta, and Millegeville, Georgia; Preston, Idaho; Baltimore, Maryland; Bayonne, Jersey City, Elizabeth, Princeton, and Cape May, New Jersey; eastern North Carolina; Philadelphia, Pennsylvania; Nashville, Tennessee; Lexington, Kentucky; Cincinnati, Ohio; Dallas, Texas; and northern Mississippi. The origins of the selected plants were unknown. All were large patches of turf surviving in stressful environments indicating that they had persisted and developed over a period of many years. In addition, approximately 20 percent of the germplasm used in the development of Kalahari traces to the variety Rebel, which was bred mainly using material from old turfs in New Jersey.

The plants collected from old turfs were established in spaced-plant nurseries and/or frequently mowed clonal evaluation trials at Rutgers University. The most promising plants were identified by their persistence and appearance in the nurseries, clonal tests, and single-plant progeny trails under turf maintenance. Intercrosses of the best performing plants were subjected to varying cycles of phenotypic and genotypic selection depending on their date of collection. New sources of germplasm were added to the breeding program as it became available from the continuing collection program. Each cycle of selection showed continued progress in producing lower-growing, darker green, attractive plants with improved turf performance scores.

Large numbers of single-plant progenies were seeded in turf evaluation trials in North Brunswick, New Jersey in 1992 and near Adelphia, New Jersey in 1995. The seed used for these progeny evaluations was harvested from spaced-plant nurseries at Adelphia following varying cycles of phenotypic and genotypic selection of germplasm from old turfs and germplasm selected from or related to Rebel tall fescue.

Two thousand five hundred plants were selected from the best performing turf plots in the 1992 test sown at North Brunswick and the 1995 tall fescue trial at Adelphia. These plants were established in a spaced-plant nursery at Adelphia in the fall of 1996. Approximately 25% of the plants in this nursery were rouged for light green color, poor seed yield potential, disease susceptibility and unattractive appearance. The plants left were allowed to inter-pollinate in the nursery. Seed harvested from 30 plants with the superior floret fertility, later maturity, dwarf growth habit, high seed yield and attractive dark green appearance at the time of harvest was used to establish a turf plots in the fall of 1997 at Adelphia. In addition, one gram of each entry was sent to be the color of the plants in the fall of 1997 at Adelphia. In addition, one gram of each entry was sent to be the color of the plants in the fall of 1997 at Adelphia.

^{*} CISI = DLF International Seads
(BT: 6/15/2007)

#200300144

Seeds Inc. (PLF) where it was used to establish a spaced plant nursery at CISI's Research Station near Tangent, Oregon. This nursery consisted of 120 plants from each of the 30 families.

From the fall of 1997 through the spring of 1999 the Oregon nursery and the New Jersey turf plots were observed. In the late spring of 1999 sixteen plants were selected from the nursery and crossed in isolation. These plants were selected from eight of the 30 families. Selection was based on family turf performance, darker green color and dense tillering. Following seed ripening the 16 plants in the cross were harvested separately. A portion of the seed from each plant was used to establish progeny turf plots near Adelphia, New Jersey and Tangent, Oregon in the fall of 1999. Part of the seed was also used in 1999 to plant a spaced plant nursery near Tangent. This nursery consisted of four replications of 60 plants of each of the 16 families for a total of 3840 plants. Prior to flowering in the summer of 2000 two of the 16 families were cut back due to poor performance in progeny turf trials. In the remaining 14 families approximately 10% of the plants that had poor vigor, or coarse leaves were removed. The remaining plants were allowed to interpollinate and following seed ripening were bulk harvested. This seed is the stock seed of the variety. A supply of this seed is maintained by the plants of the stock and it may be used to establish breeder seed fields as necessary

The variety Kalahari has appeared uniform and stable during multiplication from breeder generation to foundation generation during the years 2001-2002. Kalahari has a small (<5%) percentage of variants that are somewhat taller and coarser than the rest of the population. The percentage of these variants appears to be uniform and stable when seed is multiplied from breeder to foundation generation.

#200300144

EXHIBIT B

Statement of Distinctness

Kalahari tall fescue (Festuca arundinacea) is a medium-late maturity variety with a short mature plant height.

Kalahari is most similar to Silverado. Kalahari differs from this variety in characteristics including, but not necessarily limited to the following:

- 1) Kalahari has a significantly shorter mature plant height than Silverado when grown in western Oregon (68.9 cm vs. 77.9 cm) (see Table 2).
- 2) Kalahari has a significantly longer panicle length than Silverado when grown in western Oregon (27.8 cm vs. 20.3 cm) (see Table 2).

EXHIBIT C (TALL & MEADOW FESCUES)

U.S. DEPARTMENT OF AGRICULTURE PLANT VARIETY PROTECTION OFFICE, AMS, USDA NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 500 10301 BALTIMORE Blvd. BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY TAIL & MEADOW FESCUES (Festuca spp.)

	·		
NAME OF APPLICANT(S)	TEMPORARY DESI	IGNATION	VARIETY NAME
DLF International Seeds and Rutgers, The State University of New Jersey	CIS-TF 35,	rf 35	Kalahari
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)			FOR OFFICIAL USE ONLY
PO Box 229			PVPO NUMBER
Halsey, OR 97348			4 7 3
		20	00000144
Place the appropriate number that describes the varietal characteristic of 089). Characteristics described, including numerical measurements, sho for SPACED PLANTS. Royal Horticultural Society or any recognized of an asterisk * are characteristics which should be recorded.	uld represent those that	are typical for	the variety. Measured data should be
* 1. SPECIES: (With comparison varieties, use varieties within the spe	cies of the application	variety)	
1 I = F. arundinacea (Tall) Turf T	<u>vpes</u>		
1 = Kentucky 31 2 = Rebei 3 = Olympic 7 = Shortstop 8 = Silverado 9 = Rebel Jr.	4 = Bonanza 10 = Mini Mustang	S = Arid 11 = Cre	6 = Rebel II wcut 12 = Bonsai
Forage	Types		
20 = Kentucky 3121 = Martin 24 = Kenhy 25 = AU Trium		= Mozark 27 = Caji	un
2 = F. pratensis (Meadow)	•		
30 = Admira $31 = Beaumont$ $32 = Co$	omtessa 33 = Ensign	34 = Tra	der
*2. CYTOLOGY:			
42 Chromosome Number .			
3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)			
2 Transition Zone 2 West 0 Northeast	Other (Specify):	
* 4. MATURITY: (Date First Headed, 10% of Panicle Emergence)	······		
6 Maturity Class 1 = Very early () 2 = AU Triumph 6 = Bonanza 7 = Late (Silvera		awn) 4 = K31, 9 = Very	Kenhy 5 = Medium (Rebel)
Date Headed May 30 Location wes	tern Oregon		
4 Days earlier than 12			
Maturity same as4 Comparison Variety			

			erage of 100 culms * nodding, straighten)		LENGTH CM: ternode subtendin	g the flag	leaf)	330014	£
<u>76 .</u>	2 cm Height			3 6.2	2 cm Internode len	gth	يا لريا ڪ	المه الما الآيا الآيا الله الم	^K a'
c	m shorter than	N/A		1 3, 4	cm shorter than	_6_			
Height san	ne as	12_	Cemparison Variety	y Length s	same as	9	Сотрат	ison variety	
<u>9.1</u> c	m taller than	_7_			cm longer than	<u>N/</u> A	•		
• HEIGHT AT E.	AR EMERGE	NCE CM	(Flag leaf height from	m crown to fiag	g leaf node)				
_28.5 c	m Height								
<u>6.6</u> c	m shorter than	11							
Height san	ne as	<u>12</u>	Comparison Variety	,					
c	m taller than	<u>n/</u> A				•			
* 5. GROWTH HA	BIT: (Mature	Plants)						· · · · · · · · · · · · · · · · · · ·	
	= Prostrate (= Semierect (I					izontal ()		
* 7. RHIZOMES (P	suedo):					·-·		······································	
n	ım Length	1_1=	Absent () 2	= Rare (Rebel)	3 = Corr	mon ()		
* 8. LEAF BLADE	(Tiller leaves	turf colo	r)						
6.1 Color 5.7	7 = Me	dium darl	() 3 = k green () 9 = comparison variety(S	= Very dark gre	en ()	5 = Gree	en ()		
*2_Anth	ocyanin:	l = Abs	ent () 9 =	= Present ()					
* <u>1</u> Basal	Hairs: 1 = Ab	sent()	9 = Present	()					
* 5 Marg	ins:	1 = Sm	ooth () 5 =	= Semi-rough ()	9 = Rou	gh ()		
* <u>6</u> Width	Class: 1 = Ver		() 3 = Coarse e () 9 =	() = Very Fine (5 = Medium ())	•		
* TILLER LEAF LI	ENGTH CM: (First leaf	subtending the flag le	af)	* TILLER LEAF	WIDTH	MM:		
<u>14.5</u> cı	n Tiller Leaf I	Length			7.4 mm Tiller	Leaf Wid	lth		
6.5 cm s	horter than	<u>10</u>			1.7 mm narrow	er than	4		
Length san	ne as	8	Comparison Variety		Width same as		8	Comparison variety	
4 .8 cm le	onger than	<u>12</u>			0.8 mm wider	than	<u>12</u>		

8. LEAF BLADE: (continued)

FLAG LEAF LENGTH CM:		·	FLAG I	LEAF WIDTH MI	200300166
12.3 cm Flag Leaf L	ength		<u>5.9</u> n	ım Flag Leaf Widi	the Company of the Co
2.7 cm shorter than	1_		<u>1.3</u> n	nn narrower than	4
Length same as	8_	Comparison Variety	Width s	ame as	8 Comparison variety
4.8 cm longer than	12		<u>1.6 n</u>	ım wider than	<u>12</u>
* 9. LEAF SHEATH; (Basal Port	ion)		· · · · · · · · · · · · · · · · · · ·		······································
*9_Anthocyanin (seed)	ing):	1 = Absent (K31)	9 = Present ()		
*5 Auricle Hairiness:	;	I ≃ Absent ()	9 = Pres	sent ()	
* 10. PANICLE: (At seed maturit	y except wb	ere noted.)			
* 5 Shape: 1 = Na	rrow-taperii	ng() 5=Ov	ate ()	7 = Oblong ()	9 = Other (specify)
*_5 Type: 1 = Co	mpact (appı	ressed) 5 = Int	ermediate ()	7 = Open ()	9 = Other (specify)
*8 Orientation: I = No	dding ()	9 = Ere	ect ()		
*7 Branch Pubescence	: 1 = Glabr	rous ()	9 = Pubescent ()	
* Anther Color (At an		l = Yellowish Green 4 = Purplish	2 = Green 5 = Reddish	3 = Bluish Green 6= Other (Specif	
*2_Glume Color (At an		t = Yellowish Green t = Purplish	2 = Green 5 = Reddish	3 = Bluish Green 6= Other (Specif	
*2 7.8 cm Panicle Le	ngth (from l	pase to tip, if nodding, st	raighten; after anth	esis)	
cm shorter than	N <u>/A</u>	4			
Length same as	9 (Comparison Variety			
75cm longer than	8_				
* 11. SEED: (With Lemma & Pele	:a)		····		
*2 5 7 3 mg per 100	0 seeds				
4 1 6 mg less than	4				
Weight same as	<u>7</u>	Comparison Variety			
mg more than	<u>N/</u> A				
PALEA: (Keels or Margins)	4 Hairs	: 1 = Absent ()	5 = Sho	rt (Missouri 96)	9 = Long ()
LEMMA:	4_ Hairs	: 1 = Absent (Ken	hy) 5 = Seve	eral ()	9 = Many (Missouri 96)
6 3 mm Lemma Length	(Manre)	<u>1.4</u> n	nm Lemma width		
0_7 mm shorter than	4		mm narrow	ver than N/A	
Length same as	<u>7</u> c	Comparison Variety	Width same as	7	Comparison variety
0. 6 mm longer than 10. PANICLE: (continued)	<u>T</u> F-64		mm wider	than <u>N/A</u>	

A	WNS:	9 AW	NS:	1 = Abse	nt () 9=P	resent (Fa	lcon) <u>95</u>	% Plants with awns	ì	
<u>1.</u>	1 mm Awn k	ngth (Of	those pr	esent.)			•		9503	0014	\mathcal{E}_s
	mm Shorte	r than	<u> N/A</u>							24 85	•
Len	igth same as		8	Comparis	on Va	riety					
	mm Longe	r than	N/A								
12. DISEAS	E, INSECT. A	ND NEM	1ATOD	EREACT	ION: (0= Not	Tested 1:	= Least Resistant 9	= Most Resistant)		
0	Melting-out	Drechsler	а роае				B	lind Seed Glocotin	ia temulenta		
0	Leaf Spot D.	siccans					<u>0</u> D	ollar Spot Lanzia,	Mollerdiscus spp.		
_5	Net Blotch D	. dictyoid	es				_0 s	tem Rust <i>Puccinia</i> ,	graminis		
_0	Brown Patch	Rhizocto	nia sola	ni			<u>0</u> T	. Blight <i>Typhula in</i>	carnata		
0	C. Leaf Spot	Cercospo	ra fectu	cae			<u>0</u> P	ythium Blight <i>Pyth</i>	ium spp.		
0	Pink Snow M	old Gerla	achia ni	valis			_0 P	owdery Mildew <i>Er</i>	ysiphe graminis		
_0	Silver Top F.	tricinctu	m, F. ro.	seum			<u>0</u> c	rown Rust <i>Puccini</i>	a coronata		
	Other Disease	e		·					_		
	Other Insect		,				·····		_		
	Other Nemat	ode				······································	· · · · · · · · · · · · · · · · · · ·		· -		
13. ENVIR	ONMENTAL	STRESS					· · · · · · · · · · · · · · · · · · ·			·	······
	Drought Stree	ss	1 = Susc	eptible ()	5 = T	olerant ()9 = Resistant ()		
	Shade Stress		1 = Susc	eptible ()	5 = T	oferant ()9 = Resistant (}		
	Winter Stress	1 = Susce	ptible () :	5 = To	lerant ()9 = Re	esistant ()			
characteristic	es, indicate the	degree o	f resemb	olance with	the fo	ollowing	scale:	E THE APPLICAT	TON VARIETY. I	for the following	ıg
Character		Varieties	·····	Rating				Character	Varieties	Rating	·
			<u></u>				······································	·			
Leaf Width	Si	lverad	0	2				Leaf Color	Silverado	2	
Panicle Color								Panicle Shape			
Seed Size	Si	lverad	0	2				Cold Injury			
Winter Color	•							Heat			
Disease											

* 15. EXPERIMENTAL: Give a brief summary of the experimental design utilized to collect the data used on this form. Cultural conditions, number of plants measured and plant spacing must be specified.

Each trial was laid out using a completely randomized design with three replications of each variety. Each replication consisted of 20 plants. Plant spacing was 1.5 feet between plants within a row and 3 feet between rows. Each trial received 135 pounds of Nitrogen applied in the spring in a split application. The Tangent location was grown on Concord silt loam and the Shedd site was Woodburn silt loam.

Table 1.

Heading dates in Julian days of tall fescue varieties grown near Tangent and Shedd Oregon in 2002. Trials consisted of three replications of each variety with 10 plants per replication. Trials were conducted using completely random designs. Plant spacings were 1.5 feet within rows and 3 feet between rows.

VARIETY	Tangent	Shedd	Average
KY-31	142.4	142.1	142.2
Tomahawk	143.5	143.6	143.6
Bingo	146.2	145.3	145.8
Raptor	147.0	146.1	146.5
Mini Mustang	147.6	149.3	148.5
Rebel II	147.6	147.5	147.6
Houndog 5	147.8	148.1	148.0
Rebel Jr.	148.6	149.8	149.2
Crewcut	148.7	148.1	148.4
Southern Comfort	149.9	147.8	148.8
Kalahari	150.0	149.7	149.8
Silverado	150.8	151.2	151.0
Bonanza	150.9	148.3	149.6
TF 64	152.7	151.3	152.0
Shortstop	153.9	151.7	152.8
Bonsai	154.9	152.8	153.8
			-
LSD @ 0.05	2.0	2.1	

Table 2.

Morphological measurements of tall fescue cultivars grown near Tangent and Shedd Oregon in 2002. Trials consisted of three replications of each variety with 10 plants per replication. Plants were spaced 1.5 feet apart within a row and rows were spaced 3 feet apart.

		anopy Le ength (cr		F	Plant łeight (cr	n)		Internode ength (cr			=lag Lea leight (cr	
VARIETY	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average
KY-31	41.26	25.94	33.60	117.90	96.46	107.18	56.67	43.43	50.05	55.10	46.10	50.60
Bonanza	33.24	30.01	31.63	98.12	91.98	95.05	51.02	39.57	45.30	46.26	38.10	42.18
Rebel II	34.10	23.87	28.99	109.73	91.13	100.43	55.37	43.89	49.63	47.70	38.93	43.32
Tomahawk	31.56	25.33	28.45	99.83	87.51	93.67	47.05	42.95	45.00	37.31	41.66	39.48
Mini Mustang	27.43	23.14	25.29	93.43	80.63	87.03	42.50	38.79	40.65	38.85	30.05	34.45
Crewcut	28.84	20.09	24.46	99.64	82.96	91.30	45.59	36.66	41.12	40.87	29.40	35.14
Houndog 5	27.35	18.58	22.97	97.59	77.67	87.63	46.33	38.02	42.17	43.53	33.08	38.30
Silverado	29.24	16.51	22.88	90.33	65.40	77.87	43.37	34.09	38.73	34.99	32.29	33.64
Rebel Jr.	24.21	21.52	22.87	91.09	86.85	88.97	36.74	35.22	35.98	35.39	31.54	33.46
Kalahari	25.10	16.24	20.67	76.21	61.53	68.87	41.25	31.12	36.19	33.34	23.73	28.54
Southern Comfort	25.56	15.35	20.46	82.14	66.32	74.23	43.33	36.34	39.84	33.54	26.56	30.05
Shortstop	21.86	17.79	19.83	81.89	77.73	79.81	36.82	41.05	38.94	37.54	37.01	37.28
Bingo	22.24	16.54	19.39	79.40	69.40	74.40	40.76	34.19	37.48	32.75	33.99	33.37
Raptor	23.47	10.22	16.85	76.37	51.21	63.79	42.07	27.44	34.75	32.80	20.12	26.46
TF 64	16.64	11.80	14.22	63.32	47.75	55.54	32.39	27.33	29.86	24.58	22.60	23.59
Bonsai	15.52	9.43	12.48	75.61	53.96	64.79	39.78	29.45	34.61	28.22	22.12	25.17
LSD 0.05	3.20	2.06		5.60	3.56		5.55	5.09		5.19	4.13	

Table 2 (continued).

Morphological measurements of tall fescue cultivars grown near Tangent and Shedd Oregon in 2002. Trials consisted of three replications of each variety with 10 plants per replication. Plants were spaced 1.5 feet apart within a row and rows were spaced 3 feet apart.

		Flag Lea ength (c			lag Lea lidth (mi			iller Lea			iller Lea Iidth (m		Pani Length		
VARIETY		• .	Áverage		•	Average				Tangent	Shedd	Áverage	•	. ,	Average
Bonanza	18.73	19.53	19.13	8.03	6.06	7.05	23.10	20.44	21.77	9.53	8.61	9.07	23.16	17.13	20.15
Rebel II	16.00	15.72	15.86	6.49	5.17	5.83	20.17	21.04	20.61	7.91	7.67	7.79	21.34	20.29	20.82
Rebel Jr.	14.95	15.69	15.32	6.79	5.57	6.18	19.05	16.26	17.66	8.38	8.06	8.22	25.00	21.07	23.04
KY-31	15.52	14.45	14.98	7.04	5.34	6.19	21.45	20.56	21.01	8.84	8.34	8.59	17.38	19.16	18.27
Mini Mustang	13.21	14.74	13.98	5.71	5.38	5.55	16.68	15.74	16.21	6.87	6.57	6.72	20.57	16.79	18.68
Shortstop	12.80	15.08	13.94	7.81	5.06	6.43	16.85	15.56	16.20	9.15	5.67	7.41	15.00	12.26	13.63
Houndog 5	14.08	12.58	13.33	6.67	4.93	5.80	17.76	15.15	16.46	8.51	6.33	7.42	26.97	25.72	26.35
Tomahawk	15.15	10.97	13.06	5.99	4.69	5.34	18.61	17.05	17.83	8.73	5.67	7.20	22.45	19.68	21.07
Silverado	14.52	10.41	12.47	7.18	5.41	6.30	17.37	14.56	15.97	8.45	6.63	7.54	20.29	20.27	20.28
Crewcut	14.05	10.59	12.32	7.21	5.43	6.32	26.71	14.46	20.58	8.44	5.92	7.18	21.58	19.78	20.68
Kalahari	12.95	11.61	12.28	6.63	5.08	5.86	15.33	13.61	14.47	7.80	6.93	7.37	25.96	29.69	27.83
Southern Comfort	13.31	10.26	11.79	6.53	5.07	5.80	16.22	13.19	14.71	7.62	6.81	7.21	14.71	12.37	13.54
Raptor	10.66	11.70	11.18	5.34	4.81	5.07	15.19	9.69	12.44	6.61	5.45	6.03	20.99	20.88	20.94
Bingo	10.99	10.49	10.74	5.81	4.97	5.39	14.72	15.75	15.24	7.57	7.34	7.46	18.33	14.99	16.66
TF 64	8.45	6.99	7.72	4.67	2.89	3.78	11.90	10.08	10.99	6.37	4.12	5.25	17.56	14.79	16.18
Bonsai	8.69	6.24	7.47	5.41	3.08	4.25	10.66	8.69	9.68	6.47	4.68	5.57	17.58	16.28	16.93
LSD 0.05	1.93	2.33		0.79	0.90		4.32	2.55		1.06	0.98		2.49	2.83	

#200300144

Table 3.

Leaf characteristics of tall fescue varieties grown near Tangent and Shedd Oregon

	•	Leaf Color	•	į.	_eaf Width	1	% Plants with			
	(1-9;	9=dark gr	reen)	(1-9;	9=very na	rrow)	Lea	f Anthocya	anin	
NAME	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	
TF 64	7.2	6.9	7.0	7.1	7.0	7.0	25.3	23.3	24.3	
Raptor	6.6	6.2	6.4	6.0	6.4	6.2	24.7	17.0	20.8	
Bonsai	6.5	6.5	6.5	7.1	6.9	7.0	10.0	8.3	9.2	
Bingo	6.3	6.2	6.2	6.2	6.0	6.1	14.7	29.0	21.8	
Kalahari	6.2	6.1	6.2	6.0	5.5	5.7	8.3	26.7	17.5	
Silverado	6.0	5.4	5.7	5.4	5.3	5.4	17.7	20.0	18.8	
Tomahawk	6.0	5.7	5.8	5.6	5.0	5.3	38.3	31.3	34.8	
Houndog 5	5.8	4.6	5.2	5.3	4.6	4.9	37.0	27.7	32.3	
Shortstop	5.8	4.6	5.2	5.4	5.0	5.2	19.0	26.7	22.8	
Southern Comfort	5.8	5.8	5.8	5.7	5.5	5.6	30.3	41.0	35.7	
Crewcut	5.5	5.0	5.3	5.2	5.6	5.4	31.0	54.3	42.7	
Rebel Jr.	5.5	5.2	5.4	5.2	5.0	5.1	33.0	59.0	46.0	
Mini Mustang	5.4	5.0	5.2	5.4	4.9	5.1	29.3	32.3	30.8	
Rebel II	5.3	5.3	5.3	5.0	4.5	4.8	40.0	60.7	50.3	
Bonanza	4.8	4.4	4.6	4.8	4.0	4.4	48.3	60.0	54.2	
KY-31	4.2	2.7	3.4	3.4	3.1	3.3	74.3	52.3	63.3	
LSD @ 0.05	0.6	0.6		0.6	0.5		23.2	15.0		

Table 4.
2002 Panicle Traits of Tall Fescue Varieties Grown Near Tangent and Shedd, Oregon

				% of Plants with						
	% c	of Plants	with	Pai	Panicle Branch					
	Ere	ect Panic	les	Р	ubescend	ce				
NAME	Tangent	Shedd	Average	Tangent	Shedd	Average				
TF 64	100.00	100.00	100.00	32.67	18.33	25.50				
Raptor	100.00	93.33	96.67	82.67	38.00	60.34				
Bingo	100.00	82.00	91.00	59.00	30.67	44.84				
Kalahari	80.00	96.67	88.34	83.33	53.33	68.33				
Bonsai	86.67	87.67	87.17	43.33	25.00	34.17				
Rebel Jr.	88.00	68.33	78.17	62.33	47.67	55.00				
Southern Comfort	64.00	82.33	73.17	68.33	46.67	57.50				
Mini Mustang	83.33	47.67	65.50	61.33	29.33	45.33				
Shortstop	67.67	58.00	62.84	54.67	48.67	51.67				
Silverado	48.33	67.00	57.67	81.00	39.67	60.34				
Houndog 5	53.00	51.67	52.34	38.67	17.33	28.00				
Tomahawk	39.67	57.67	48.67	62.33	58.67	60.50				
Crewcut	39.67	53.33	46.50	45.67	46.67	46.17				
Bonanza	52.67	20.67	36.67	59.33	52.33	55.83				
Rebel II	30.67	36.00	33.34	52.33	39.33	45.83				
KY-31	34.67	24.67	29.67	52.33	30.33	41.33				
LSD @ 0.05	17.99	17.37		19.86	15.86					

Table 5.

2002 Seed characteristics of tall fescue varieties grown near Tangent and Shedd, Oregon

				P	alea Haii	rs	Le	mma Ha	irs		_							
				(1-9	9; 1=abes	sent	(1-	9; 1=abs	ent		•							
	Mg p	er 1000 s	eeds	ţ	to 9=long)	to	9=many	/)	Lemm	ia Length	ı (mm)	Lemn	na Width	(mm)	Awr	1 Length	(mm)
NAME	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average	Tangent	Shedd	Average
KY-31	2876.9	3851.7	3364.3	1.67	2.60	2.13	2.00	4.27	3.13	6.09	5.98	6.04	1.33	1.37	1.35	0.71	0.70	0.71
Tomahawk	2957.8	3662.0	3309.9	1.97	2.57	2.27	2.47	3.20	2.83	7.15	7.21	7.18	1.46	1.53	1.50	0.70	0.85	0.77
Bonanza	2813.4	3164.8	2989.1	1.67	3.07	2.37	3.07	3.60	3.33	6.74	7.23	6.98	1.45	1.70	1.58	0.73	0.85	0.79
Rebel II	2793.1	2934.0	2863.5	2.30	2.57	2.43	3.07	3.60	3.33	6.51	6.30	6.41	1.46	1.43	1.44	0.67	0.98	0.83
Bingo	2546.5	2800.3	2673.4	1.73	2.87	2.30	2.70	3.90	3.30	6.23	6.53	6.38	1.41	1.44	1.43	0.95	1.04	1.00
Raptor	2535.2	2747.6	2641.4	2.60	2.27	2.43	3.03	3.80	3.42	6.30	5.93	6.12	1.40	1.46	1.43	0.91	0.88	0.90
Silverado	2564.4	2702.4	2633.4	1.53	2.23	1.88	2.03	3.00	2.52	6.87	6.61	6.74	1.46	1.49	1.47	1.14	0.95	1.04
Kalahari	2427.6	2718.9	2573.3	2.17	3.73	2.95	3.10	4.30	3.70	6.21	6.28	6.25	1.39	1.43	1.41	1.23	1.00	1.11
Shortstop	2629.2	2508.0	2568.6	1.43	2.33	1.88	2.37	3.23	2.80	6.27	6.44	6.36	1.39	1.43	1.41	0.92	0.89	0.91
Houndog 5	2361.6	2738.0	2549.8	1.43	2.33	1.88	3.23	3.60	3.42	6.38	6.64	6.51	1.39	1.38	1.39	0.61	1.05	0.83
Crewcut	2428.2	2611.1	2519.7	1.13	2.13	1.63	1.80	3.60	2.70	6.58	6.62	6.60	1.37	1.46	1.42	0.86	1.24	1.05
Southern Comfort	2451.4	2575.5	2513.5	1.33	1.83	1.58	2.07	2.80	2.43	6.49	6.23	6.36	1.35	1.31	1.33	1.13	0.80	0.97
TF 64	2469.1	2553.6	2511.3	2.03	2.93	2.48	4.27	4.37	4.32	5.75	5.64	5.69	1.39	1.37	1.38	0.77	0.71	0.74
Mini Mustang	2406.1	2534.0	2470.1	2.00	2.70	2.35	4.27	3.30	3.78	6.39	7.30	6.84	1.40	1.47	1.44	1.08	1.45	1.27
Bonsai	2376.7	2259.0	2317.9	1.73	2.47	2.10	2.27	3.47	2.87	6.76	6.81	6.79	1.39	1.44	1.41	0.89	1.01	0.95
Rebel Jr.	2456.3	2073.1	2264.7	1.40	2.93	2.17	2.17	2.97	2.57	6.44	6.25	6.35	1.37	1.44	1.40	1.17	0.92	1.04
LSD @ 0.05	204.5	381.8		0.66	0.75		0.81	0.66		0.43	0.56		0.09	0.13		0.37	0.28	

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Table 6.

Net blotch ratings of tall fescue cultivars grown near Tangent, Oregon. Rating scale is 1-9; 9=no disease.

Cultivar	2002	2003	Average
Bingo	6.00	5.33	5.67
CIS-TF 64	5.67	4.00	4.84
Tomahawk	5.67	3.33	4.50
Rembrandt	5.33	5.33	5.33
Kalahari	5.33	4.67	5.00
Olympic Gold	5.00	5.33	5.17
Tomcat	4.67	6.33	5.50
Houndog 5	4.33	4.33	4.33
Watchdog	4.33	4.33	4.33
Dynasty	4.33	3.33	3.83
Pride	4.00	4.67	4.34
Raptor	4.00	4.67	4.34
Masterpiece	4.00	3.67	3.84
Gooden	4.00	3.33	3.67
LSD @ 0.05	1.46	0.96	

REPRODUCE LOCALLY. Include form number and edition date on al	II reproductions.	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).	
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
DLF International Seeds and Rutgers, The State	OR EXPERIMENTAL NUMBER CIS-TF 35	Kalahari
14(04) University of New Tersey 4. ADDRESS (Street and No., or R.F.D. Nov. City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
•	(541) 369-2251	(541) 929-4087
PO Box 229/175 West H Street Halsey, OR 97348	7. PVPO NUMBER	(311)7227 1007
USA	#20	0300144
8. Does the applicant own all rights to the variety? Mark an "X" in the	ne appropriate block. If no, please expla	in. YES NO
9. Is the applicant (individual or company) a U.S. national or a U.S. t	based company? If no, give name of c	ountry. YES NO
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation NO If no, give name of coun	
b. If the original rights to variety were owned by a company(ies)), is (are) the original owner(s) a U.S. ba	
	NO If no, give name of count	ry
YES	NO If no, give name of count	ry
YES	NO If no, give name of count	ry
11. Additional explanation on ownership (Trace ownership from original explanation)	NO If no, give name of count inal breeder to current owner. Use the r	ry
11. Additional explanation on ownership (Trace ownership from original plans of the content of t	NO If no, give name of count inal breeder to current owner. Use the rusees) who meet the following criteria:	everse for extra space if needed): of a UPOV member country, or
11. Additional explanation on ownership (Trace ownership from original PLEASE NOTE: Plant variety protection can only be afforded to the owners (not licen 1. If the rights to the variety are owned by the original breeder, that p	inal breeder to current owner. Use the research who meet the following criteria: person must be a U.S. national, national of the U.S. for the same genus and specially byed the original breeder(s), the companional or the original breeder(s), the companional original breeder(s), the original origi	everse for extra space if needed): of a UPOV member country, or ies. y must be U.S. based, owned by
PLEASE NOTE: Plant variety protection can only be afforded to the owners (not licen 1. If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of a UPOV member country, or owned by nationals of a	inal breeder to current owner. Use the research who meet the following criteria: person must be a U.S. national, national of the U.S. for the same genus and specified the original breeder(s), the companicountry which affords similar protection	of a UPOV member country, or ies. y must be U.S. based, owned by to nationals of the U.S. for the same

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F

DECLARATION REGARDING DEPOSIT			
NAME OF OWNER (S) DLF International Seeds and Rutgers,	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) PO Box 229/175 West H Street	TEMPORARY OR EXPERIMENTAL DESIGNATION CIS-TF 35	
DLF International Seeds and Rulgers, The State University of New Halsey, OR 97348 USA DETSELY (67:7/17/2007)		VARIETY NAME Kalahari	
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	. 11.00; =23 1; 14.1⊝5±@156±1	
Stephen W. Johnson	PO Box 229/175 West H Street Halsey, OR 97348 USA	PV#N2000300144	

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Hen W. Shuson

Date 15, 2007